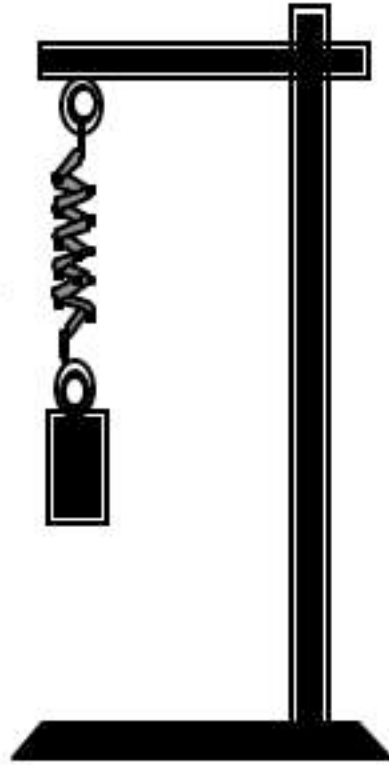


A mass hanging from a spring is at rest in the position shown at the right.

A demonstrator grabs the mass, pulls it down a few inches and holds it there.



The demonstrator then releases the mass and it moves upward, passing through its original resting point.

At the instant when it passes its original resting point going upward, identify all the forces acting on the mass and rank order them by magnitude.